

ABSTRACT

The present invention contemplates monitoring the amplification of nucleic acid using chromophore-containing polynucleotides having at least two donor chromophores operatively linked to the polynucleotide by linker arms, such that the  
5 chromophores are positioned by linkage along the length of the polynucleotide at a donor-donor transfer distance, and at least one fluorescing acceptor chromophore operatively linked to the polynucleotide by a linker arm, such that the fluorescing acceptor chromophore is positioned by linkage at a donor-acceptor transfer distance from at least one of the donor chromophores, to form a photonic structure for  
10 collecting photonic energy and transferring the energy to an acceptor chromophore, and methods using the photonic structures.

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